AMENDMENTS TO THE CLAIMS

1. (currently amended) A solid catalyst component for the polymerization of olefins comprising Mg, Ti, halogen and an electron donor selected from thiophene derivatives of formula (I):

$$R_2$$
 COOR R_3 S R_1 (I)

wherein R is a branched alkyl group, R_1 , R_2 and R_3 , same or different, are hydrogen, halogen, R^4 , OR^4 , $COOR^4$, SR^4 , NR^4 ₂ and OR^4 ₂, wherein R^4 is a linear or branched C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_3 - C_{20} cycloalkyl, C_6 - C_{20} aryl, C_7 - C_{20} alkylaryl or C_7 - C_{20} arylalkyl group, optionally containing one or more heteroatoms at least one heteroatom, and two or more at least two of said R_1 - R_3 groups can also be joined to form a cycle, with the provisions proviso that at least one of R_1 and R_2 is $COOR^4$ and that when R_2 is COO-i-octyl and R_3 are different from hydrogen.

- 2. (currently amended) The catalyst component according to claim 1 in which in the thiophene derivatives of formula (I), R is a primary branched alkyl having from 4 to 15 carbon atoms.
- 3. (currently amended) The catalyst component according to claim 1 in which in the thiophene derivatives of formula (I), R₂ is a COOR group.
- 4. (currently amended) The catalyst eomponents component according to claim 3 in which at least one of R₁ and/orand R₃ is a C1-C20 alkyl group.
- 5. (currently amended) The catalyst component according to claim 1 in which in the thiophene derivatives of formula (I), R₁ is a COOR group.

- (currently amended) The catalyst eomponents component according to claim 5 in which one of R₂ and R₃ of formula (I) are different from hydrogen.
- 7. (original) The catalyst component of claim 1 comprising a titanium compound having at least a Ti-halogen bond and the thiophene derivatives of formula (I) supported on a Mg halide in active form.
- 8. (currently amended) A catalyst for the polymerization of olefins comprising the product of the reaction between:

<u>1</u>.- a solid catalyst component according to any of the claims 1-7comprising Mg, Ti, halogen and an electron donor selected from thiophene derivatives of formula (I):

$$R_2$$
 COOR R_3 S R_1 (I)

wherein R is a branched alkyl group, R_1 , R_2 and R_3 , same or different, are hydrogen, halogen, R^4 , OR^4 , $COOR^4$, SR^4 , NR^4 , OR^4

- an alkylaluminum compound; and[[,]] optionally,
- one or moreat least one electron-donor compounds (external donor).
- 9. (currently amended) The catalyst according to claim 8 in which the alkylaluminum compound (b) is a trialkyl aluminum compound.

- 10. (currently amended) Process for the (co)polymerization of A process comprising (co)polymerizing olefins, the (co)polymerization being carried out in the presence of any of the eatalysts of claims 8-9a catalyst comprising the product of the reaction between:
 - a solid catalyst component comprising Mg, Ti, halogen and an electron donor selected from thiophene derivatives of formula (I):

$$R_2$$
 COOR R_3 S R_1 (I)

wherein R is a branched alkyl group, R_1 , R_2 and R_3 , same or different, are hydrogen, halogen, R^4 , OR^4 , $COOR^4$, SR^4 , NR^4 ₂ or PR^4 ₂, wherein R^4 is a linear or branched C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_3 - C_{20} cycloalkyl, C_6 - C_{20} aryl, C_7 - C_{20} alkylaryl or C_7 - C_{20} arylalkyl group, optionally containing at least one heteroatom, and at least two of said R_1 - R_3 groups can also be joined to form a cycle, with the proviso that at least one of R_1 and R_2 is $COOR^4$ and that when R_2 is COO-i-octyl and R is i-octyl, at least one of R_1 and R_3 are different from hydrogen;

- an alkylaluminum compound; and optionally,
- at least one electron-donor compound (external donor).